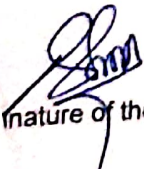
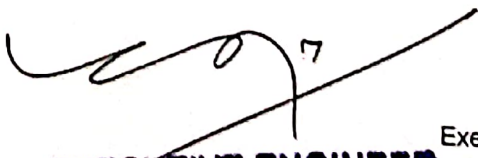


BRUHATH BANGALORE MAHANAGARA PALIKE, DASARAHALLI ZONE
Office of the Executive Engineer Dasarahalli Division,
SCHEDULE-B

NAME OF WORK: Comprehensive development works in W.No. 13 (2nd Call)

Sl. No	Description of work	Unit	Qty	Rates Quoted by Contractor SRI R SHIVARAM	
				In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	Earth work excavation for foundation of building water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clogs complete as per specifications.	Cum	126.88	335.80	Rupees Three Hundred Thirty Five and Eighty Paise Only
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	43.67	5925.97	Rupees Five Thousand Nine Hundred Twenty Five and Ninety Seven Paise Only
3	Providing and constructing granite /trap/ basalt size stone masonry in foundation with cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	Cum	55.31	5182.78	Rupees Five Thousand One Hundred Eighty Two and Seventy Eight Paise Only
4	Providing ruled pointing to coursed stone masonry with cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, labour, curing complete as per specifications	Sqm	33.44	163.77	Rupees One Hundred Sixty Three and Seventy Seven Paise Only
5	Filling avaiable excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification	Cum	126.88	225.74	Rupees Two Hundred Twenty Five and Seventy Four Paise Only


Signature of the Contractor


EXECUTIVE ENGINEER
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Dasarahalli Division, Bangalore-73
Executive Engineer
Dasarahalli Division

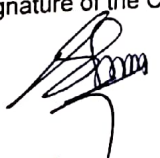
6	Providing and laying in position reinforced cement concrete cum of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, column spiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.	Cum	61.02	6932.24	Rupees Six Thousand Nine Hundred Thirty Two and Twenty Four Paise Only
7	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregates @ 0.0345cum, with superplasticiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications.	Cum	1.68	504.27	Rupees Five Hundred Four and Twenty Seven Paise Only
8	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500	Tonne	6.27	79701.35	Rupees Seventy Nine Thousand Seven Hundred One and Thirty Five Paise Only
9	Providing and removing centering shuttering strutting propping etc., and removal of form work for columns, pillars, abutments, post and struts square/ rectangular/ polygon in plan including cost of all materials labour complete as per specification	Sqm	68.74	512.13	Rupees Five Hundred Twelve and Thirteen Paise Only
10	Providing and removing centering shuttering strutting propping etc., and removal of form work for sides and soffits of beams beam houchings cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification	Sqm	163.74	327.94	Rupees Three Hundred Twenty Seven and Ninety Four Paise Only
11	Providing and removing centering shuttering strutting propping etc., for chejjas, corbels etc., including edges including cost of all materials, labour complete as per specifications	Sqm	2.52	362.76	Rupees Three Hundred Sixty Two and Seventy Six Paise Only
12	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landing, balconies and likes thickness upto 200mm including cost of materials, labour complete as per specification	Sqm	114.8	494.10	Rupees Four Hundred Ninety Four and Ten Paise Only


Signature of the Contractor


EXECUTIVE ENGINEER Executive Engineer,
Bruhat Bangalore Mahanagara Palika Dasarahalli Division,
Dasarahalli Division, Bangalore-73.

13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification.	Sqm	8.08	584.01	Rupees Five Hundred Eighty Four and One Paise Only
14	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m ³ having a minimum average compressive strength of 4.00 N/mm ² conforming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of all materials labour charges, scaffolding, curing, hirecharges of machineries etc., complete as per specifications.	Sqm	173.82	1040.84	Rupees One Thousand Forty and Eighty Four Paise Only
15	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing complete as per specifications	Sqm	234.15	313.84	Rupees Three Hundred Thirteen and Eighty Four Paise Only
16	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications	Sqm	226.5	328.87	Rupees Three Hundred Twenty Eight and Eighty Seven Paise Only
17	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification .	Sqm	114.8	266.51	Rupees Two Hundred Sixty Six and Fifty One Paise Only
18	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.	Sqm	348.95	87.60	Rupees Eighty Seven and Sixty Paise Only
19	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer	Sqm	234.15	101.08	Rupees One Hundred One and Eight Paise Only
20	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications	Sqm	226.5	114.56	Rupees One Hundred Fourteen and Fifty Six Paise Only

Signature of the Contractor

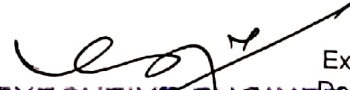


Executive Engineer,
Dasarahalli Division.

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore-73

21	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames wrought, framed of assembled including making plaster grooves (excluding cost of materials, labour, HOM of machineries complete as per specifications	Cum	0.16	98387.35	Rupees Ninety Eight Thousand Three Hundred Eighty Seven and Thirty Five Paise Only
22	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries completed as per specification (excluding cost of fixtures)	Sqm	3.78	5303.24	Rupees Five Thousand Three Hundred Three and Twenty Four Paise Only
23	Providing and fixing M.S. grill work for windows and ventilator weighing 21kg/Sqm using M.S. flats, or M.S square rods or combination of M.S. flats and steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures labour and HOM of machinery specifications	Kg	120.96	106.69	Rupees One Hundred Six and Sixty Nine Paise Only
24	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.	Sqm	5.76	46.05	Rupees Forty Six and Five Paise Only
25	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	Sqm	5.76	106.69	Rupees One Hundred Six and Sixty Nine Paise Only
26	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 900mm	Sqm	224.95	2707.61	Rupees Two Thousand Seven Hundred Seven and Sixty One Paise Only
27	Providing and fixing colour glazed tiles of size 300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, etc., complete as per specification.	Sqm	9.36	1382.66	Rupees One Thousand Three Hundred Eighty Two and Sixty Six Paise Only

Signature of the Contractor


EXECUTIVE ENGINEER
 Bruhat Bangalore Mahanagara Palike
 Dasarahalli Division, Bangalore-73.

Executive Engineer,
Dasarahalli Division.

28	Providing and fixing for flooring 40mm thick sadarahalli grey flammed granite slab for bath areas in Bathrooms over a bed of 25mm thick CM1:6 and fixing granite slab with CM 1:3	Sqm	142.8	2062.38	Rupees Two Thousand Sixty Two and Thirty Eight Paise Only
29	Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chistling and making good with cement mortar to match the surface; all the frames thoroughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications.using aluminium section anodized to 12 - 15 microns.	Sqm	5.76	6885.68	Rupees Six Thousand Eight Hundred Eighty Five and Sixty Eight Paise Only
30	Providing and fixing PVC Hollow Door Frame of the size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet, mitre cut at two corners and joined with 2 No.s of 150mm long brackets of 15 x 15mm M.S Square tube. The two vertical door profiles are to be reinforced with 19x19mm M.S. Square tube of 19 guage, EPDM rubber gasket weather seal to be provided through out the frame. The door screws through the frame by using PVC fasteners. A minimum of 4 Nos. of screws to be provided for each vertical member & minimum 2 Nos. for horizontal member.	Mtr	5.7	404.31	Rupees Four Hundred Four and Thirty One Paise Only

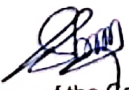

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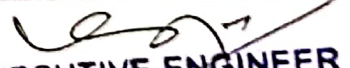

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore-73.

Executive Engineer,
Dasarahalli Division.

Engineer
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31	"SOLID PANEL PRELAM PVC DOOR SHUTTER" Providing and fixing 30MM thick factory made rigid foam with both side Prelam Panelled Door Shutters made from M.S. tube of 19 x 19mm, 19 gauge for styles and 15 x 15mm for top & bottom rails, covered with heat moulded Prelaminated PVC 'C' Channel of 5mm thick & 30 x 50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. Frames, Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges.	Sqm	1.58	4207.10	Rupees Four Thousand Two Hundred Seven and Ten Paise Only
32	Applying priming coat over new wood surface and/ or wood based surface after preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specifications	Sqm	3.78	56.15	Rupees Fifty Six and Fifteen Paise Only
33	Providing and applying painting two coats (excluding priming coat) on new wood surface and/ or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications	Sqm	3.78	108.94	Rupees One Hundred Eight and Ninety Four Paise Only
34	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies terraces etc., consisting of following applications a) applying and grouting a slurry coat of neat cement using 2.75 kg per sqm of cement admixed with proprietary water proofing compound confirming to IS 2645 over the RCC slab after cleaning the surface before treatment b) laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admix with proprietary water proofing compound confirming IS 2645 over 20mm thick layer of cement mortar 1:5 admix with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs c) after two days of proper curing applying a second coat of cement slurry admix with proprietary water proofing compound d) finishing the surface with 20mm joint less cement mortar of mix 1:4 admix with proprietary water proofing compound wall finally finishing the surface with travel and neat cement slurry and making of 300 x 300 mm square e the whole terrace so finished shall be flooded with water for a minimum period of two weeks curing and final test including cost of materials labour complete as per specifications	Sqm	126.2	1143.39	Rupees One Thousand One Hundred Forty Three and Thirty Nine Paise Only


Signature of the Contractor


EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike Engineer
Dasarahalli Division, Bangalore-73
Dasarahalli Division

VE

35	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 gauge M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification.	Sqm	7.56	3382.75	Rupees Three Thousand Three Hundred Eighty Two and Seventy Five Paise Only
36	Providing and fixing M.S. Hand railing for Balcony with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections should be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing. (Page No. 44, Item No.7.35, PWD SR 2018-19)	Sqm	8.4	3189.58	Rupees Three Thousand One Hundred Eighty Nine and Fifty Eight Paise Only
37	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Pan	1	5566.04	Rupees Five Thousand Five Hundred Sixty Six and Four Paise Only
38	Providing and fixing white vitreous china clay flat back wash basin size 630x450mm with a single of 15mm C.P. brass pillar taps with C.I. /M.S. brackets 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cuttings and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications	Pan	1	3536.62	Rupees Three Thousand Five Hundred Thirty Six and Sixty Two Paise Only

Signature of the Contractor

Executive Engineer,
Dasarahalli Division.Executive Engineer,
Dasarahalli Division.
BS

39	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms	Each	1	280.77	Rupees Two Hundred Eighty and Seventy Seven Paise Only
40	Circular shape mirror of size 450 mm with plastic moulded frame	No	3	484.70	Rupees Four Hundred Eighty Four and Seventy Paise Only
41	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil involving excavated surface leveled & sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification	Cum	693.4	143.30	Rupees One Hundred Forty Three and Thirty Paise Only
42	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.	Cum	117.02	5729.15	Rupees Five Thousand Seven Hundred Twenty Nine and Fifteen Paise Only
43	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications do- Wall & bottom thickness 15cm	Cum	47.7	7476.28	Rupees Seven Thousand Four Hundred Seventy Six and Twenty Eight Paise Only
44	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Tonne	3.2	75212.83	Rupees Seventy Five Thousand Two Hundred Twelve and Eighty Three Paise Only
45	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surface on both sides etc, and complete as per the directions of Engineer in charges. (Data Rate)	Sqm	108.9	1679.44	Rupees One Thousand Six Hundred Seventy Nine and Forty Four Paise Only

Signature of the Contractor

EXECUTIVE ENGINEER
Executive Engineer,
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore-73

Executive Engineer
Dasarahalli Division
BBMP

VE

46	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum, with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008, Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of Engineer in-Charge. (Data	Sqm	7.2	3820.59	Rupees Three Thousand Eight Hundred Twenty and Fifty Nine Paise Only
47	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications	Cum	38.52	990.96	Rupees Nine Hundred Ninety and Ninety Six Paise Only
48	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications.	Sqm	1948.4	99.21	Rupees Ninety Nine and Twenty One Paise Only
49	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications.	Sqm	2205.2	6.61	Rupees Six and Sixty One Paise Only
50	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum	409.14	2081.13	Rupees Two Thousand Eighty One and Thirteen Paise Only
51	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30, with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticizer @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)	Cum	178.38	5567.65	Rupees Five Thousand Five Hundred Sixty Seven and Sixty Five Paise Only

Signature of the Contractor

EXECUTIVE ENGINEER
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Dasarahalli Division

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Dasarahalli Division.

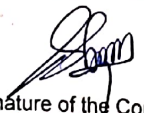
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BBMP

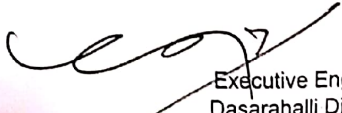
46	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for joints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data	Sqm	7.2	3820.59	Rupees Three Thousand Eight Hundred Twenty and Fifty Nine Paise Only
47	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.	Cum	38.52	990.96	Rupees Nine Hundred Ninety and Ninety Six Paise Only
48	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications.	Sqm	1948.4	99.21	Rupees Ninety Nine and Twenty One Paise Only
49	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications.	Sqm	2205.2	6.61	Rupees Six and Sixty One Paise Only
50	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum	409.14	2081.13	Rupees Two Thousand Eighty One and Thirteen Paise Only
51	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregates , with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)	Cum	178.38	5567.65	Rupees Five Thousand Five Hundred Sixty Seven and Sixty Five Paise Only


Signature of the Contractor


Executive Engineer,
Dasarahalli Division.
EXECUTIVE ENGINEER
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Dasarahalli Division, Bangalore-73

52	emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg I sqm using mechanical means complete as per specifications.	Sqm	1567.2	27.56	Rupees Twenty Seven and Fifty Six Paise Only
53	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	78.36	5955.69	Rupees Five Thousand Nine Hundred Fifty Five and Sixty Nine Paise Only
54	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	3888.4	5.51	Rupees Five and Fifty One Paise Only
55	Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	3888.4	13.23	Rupees Thirteen and Twenty Three Paise Only
56	Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. Clause 507 of MORTH V Version as per IRC SP-53-2015, do-Using 40-60 TPH Capacity HMP With Mechanical Paver Grading II (30-45mm) with 5.4% of Modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (Waste Plastic)	Cum	151.3	7031.53	Rupees Seven Thousand Thirty One and Fifty Three Paise Only
57	Removal of Unserviceable Soil with Disposal KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications.	Cum	693.4	36.38	Rupees Thirty Six and Thirty Eight Paise Only


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 Executive Engineer,
 Dasarahalli Division.

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